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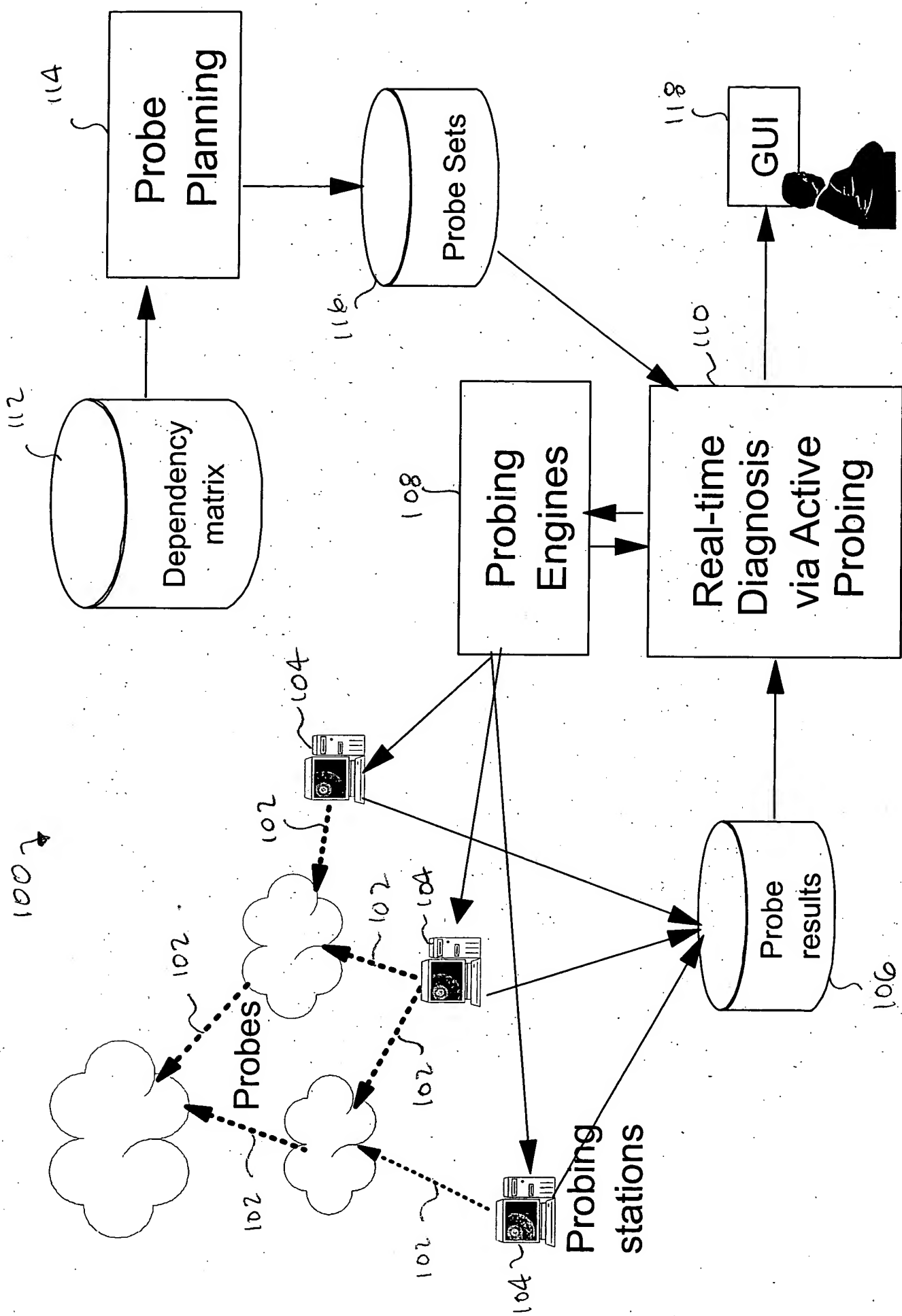


FIG. 1

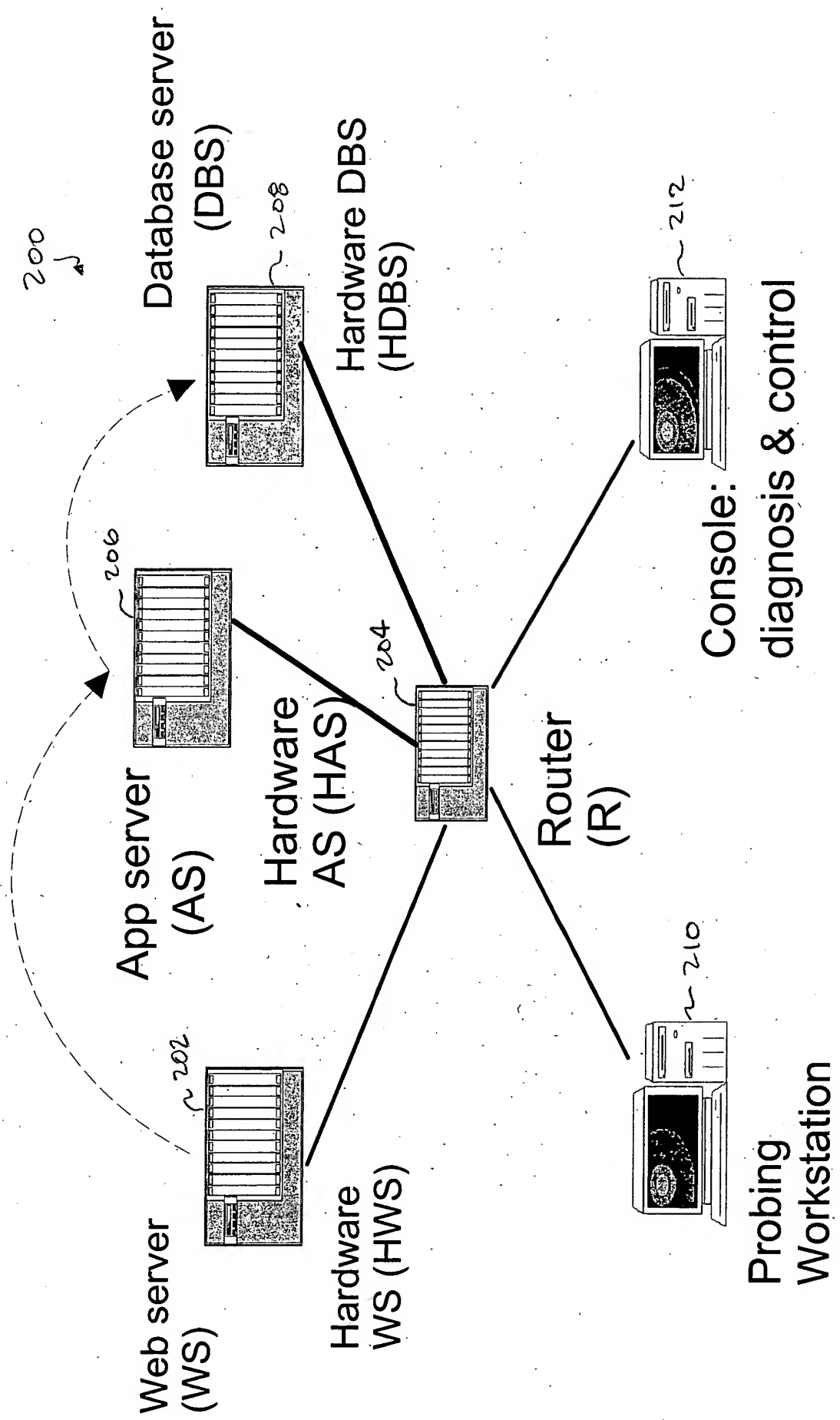


FIG. 2

Dependency matrix

Problem Probe	WS	AS	DBS	R	HWS	HAS	HDBS
pWS	1	1	1	1	1	1	1
pAS	0	1	1	1	0	1	1
pDBS	0	0	1	1	0	0	1
pingR	0	0	0	1	0	0	0
pingWS	0	0	0	1	1	0	0
pingAS	0	0	0	1	0	1	0
pingDBS	0	0	0	1	0	0	1

Probes:

pWS - Web Page access, **pAS**- Application Server access,
pDBS - Database query, **pingR** - ping router,
pingWS - ping Web Server, **pingAS** - ping Application
server, **pingDBS** - ping Database Server

FIG.3

400

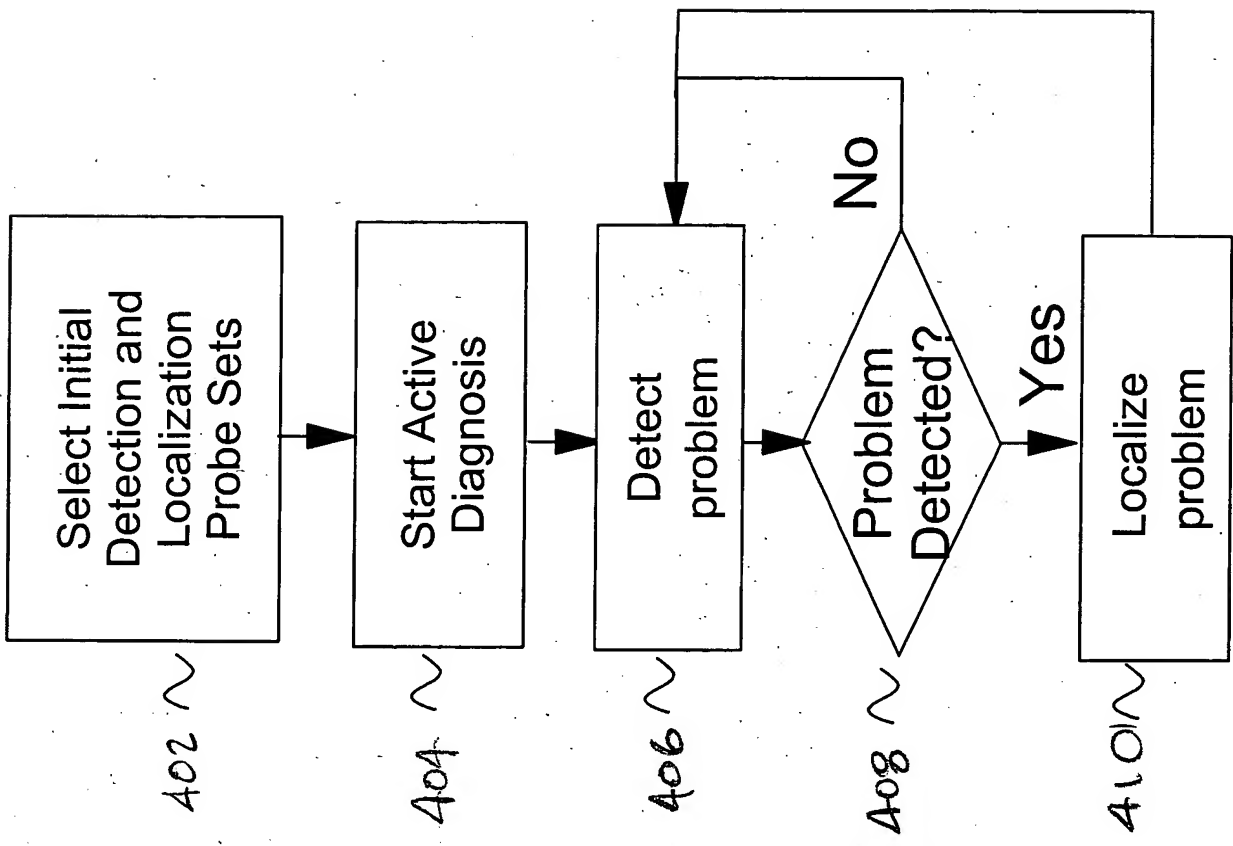


FIG.4

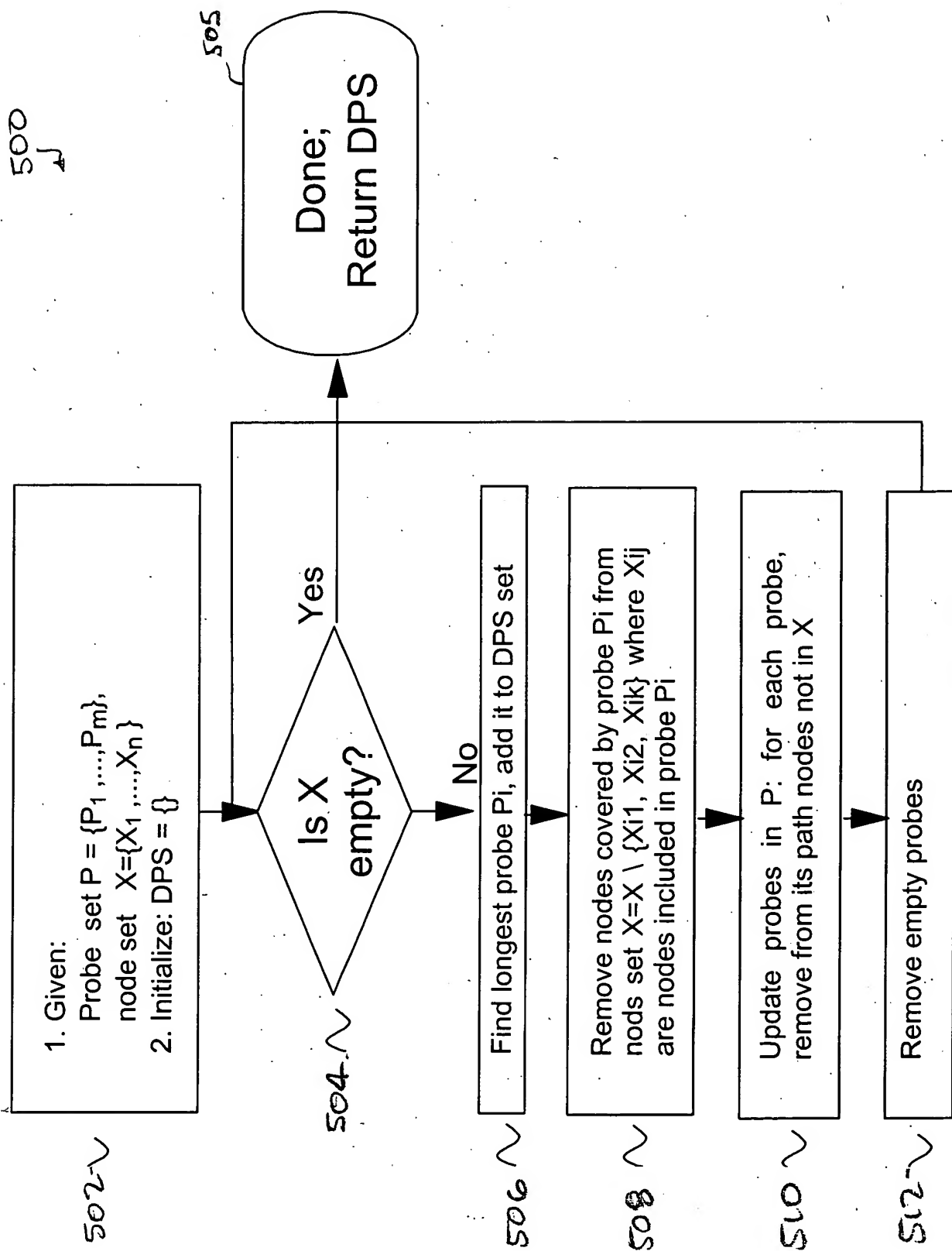


FIG. 5

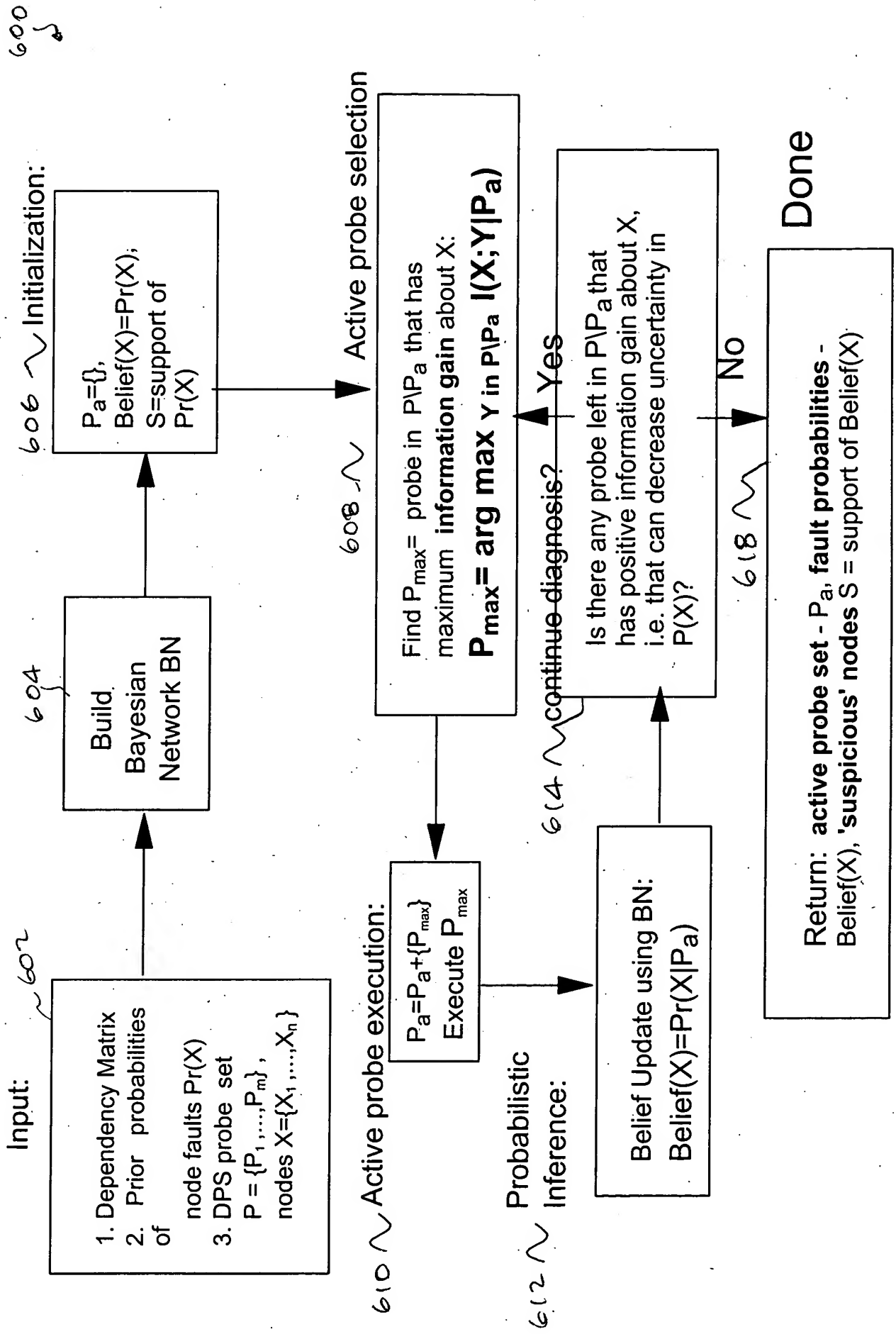
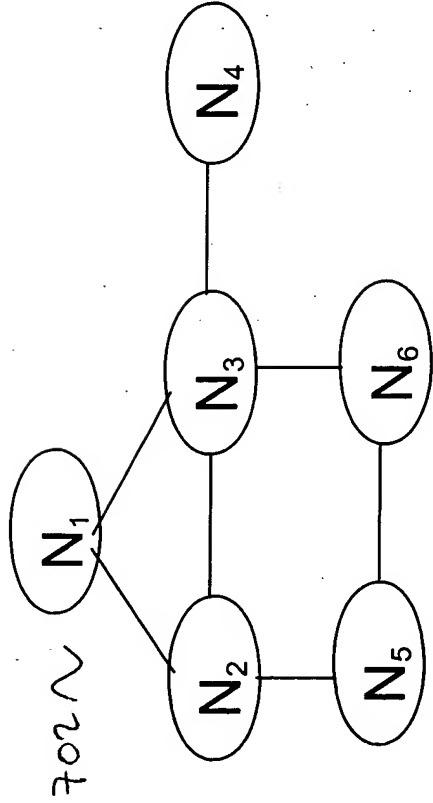


FIG. 6

700 ~



704 ~

Dependency Matrix

	N_1	N_2	N_3	N_4	N_5	N_6
Probe ₁ = P ₁₅	1	1	0	0	1	0
Probe ₂ = P ₁₆	1	0	1	0	0	1
Probe ₃ = P ₄₂	0	1	1	1	0	0

719

Bayesian Network

706 ~

$$X_i = \begin{cases} 1 & \text{if } N_i \text{ is OK,} \\ 0 & \text{otherwise} \end{cases}$$

$$P_j = \begin{cases} 1 & \text{if Probe}_j \text{ is OK,} \\ 0 & \text{otherwise} \end{cases}$$

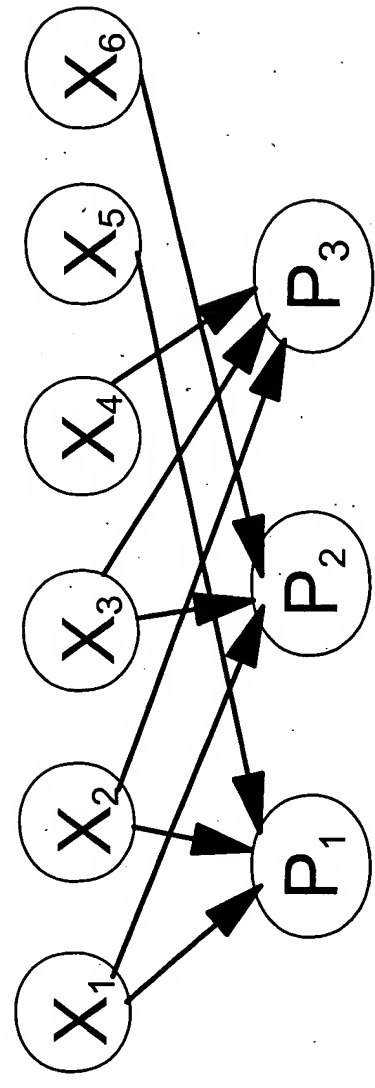
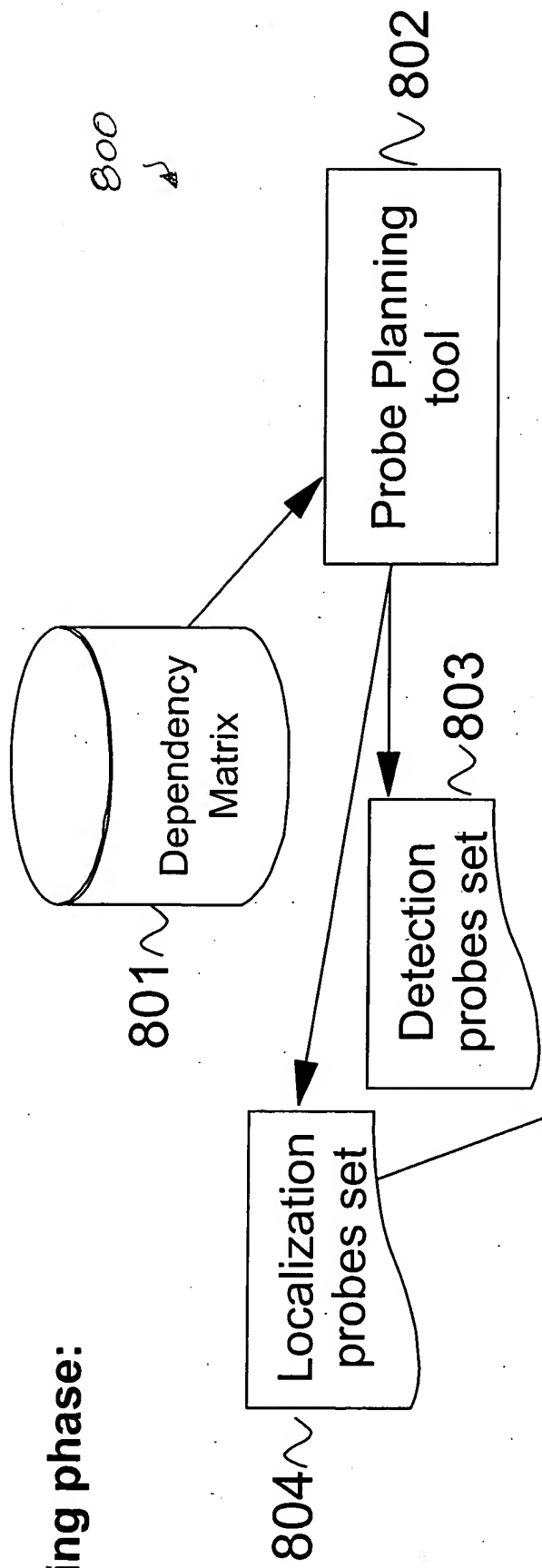


FIG. 7

Planning phase:



Online phase:

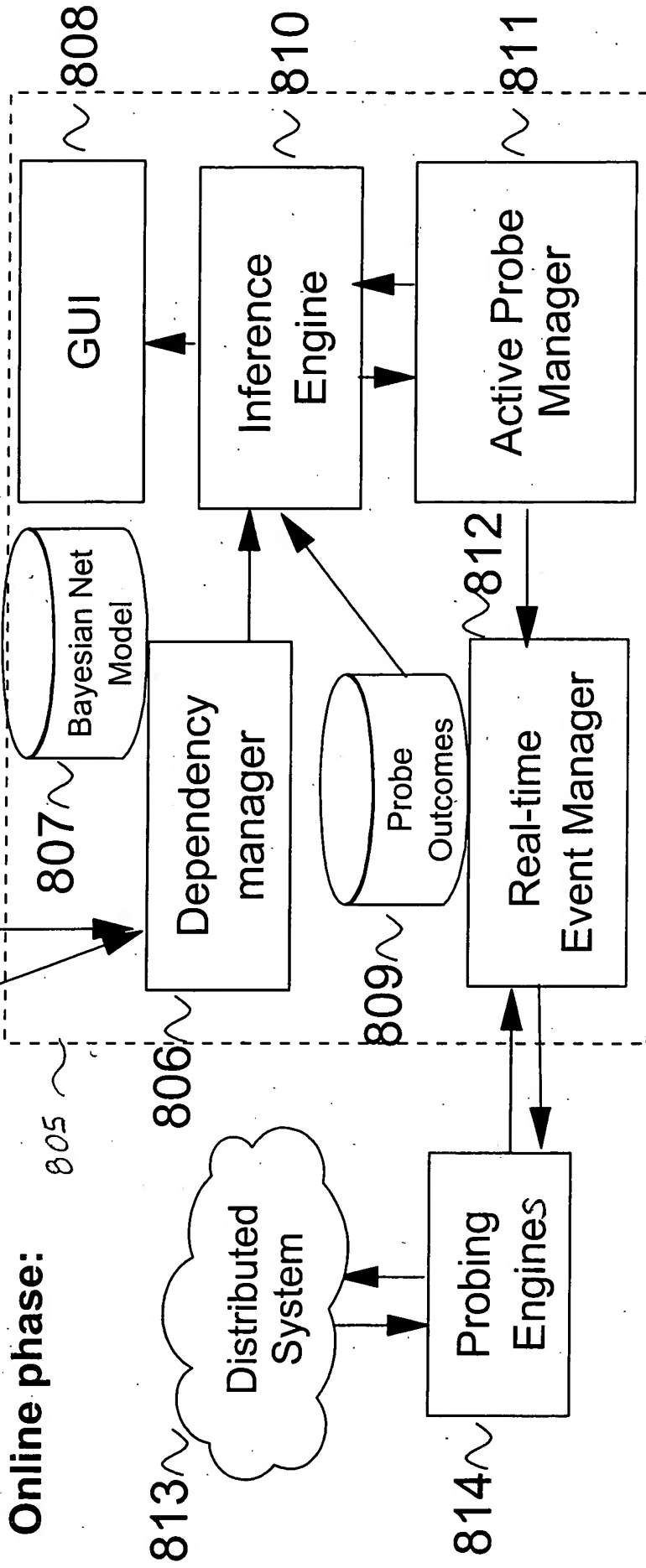


FIG.8

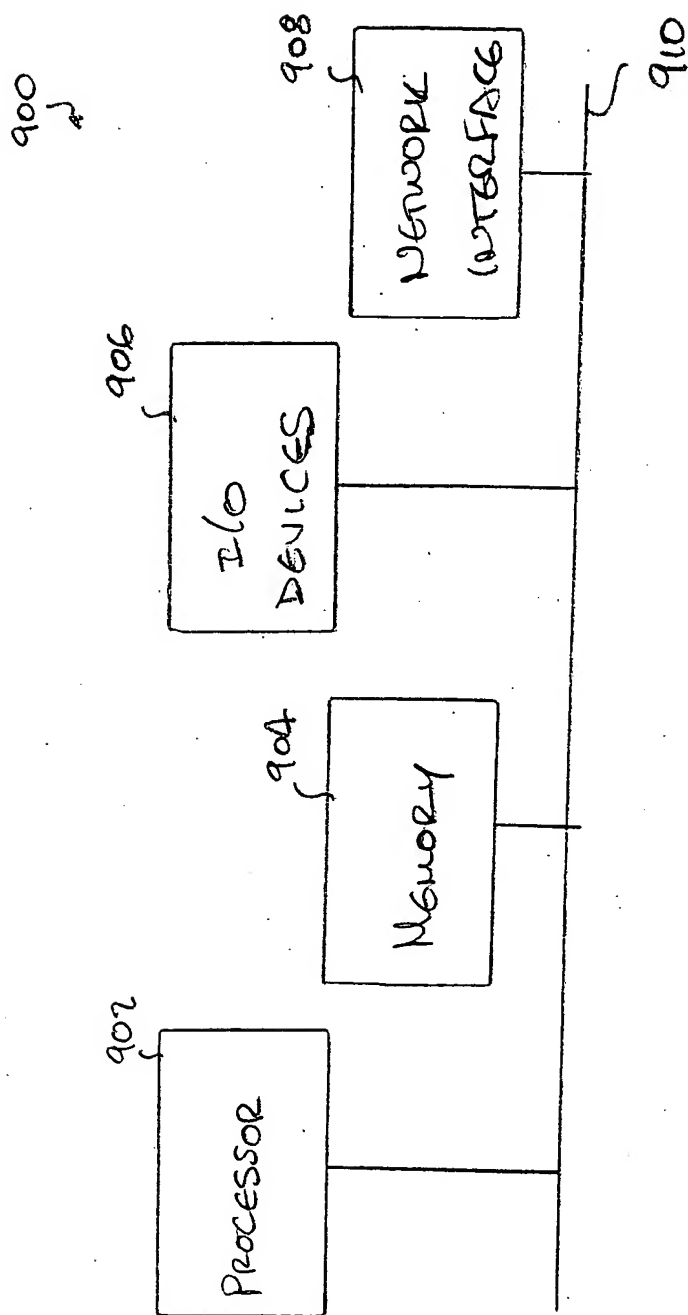


FIG. 9